CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/02/2023-24 Date: 09.03.2024

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.

Name of Work : Construction of RO Plant and other development works at JPN Colony census block No. 89/1,89/2 in Chowdeshwari Ward No.02 of Yelahanka sub Division, BBMP, Bangalore

Sample : :Cement (Dalmia 53 grade OPC)

Sample Supplied by: :AGENCY

Date of Manufacture: : February - 2024

Date of Testing : 07.03.2024 to 09.03.2024

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	385 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00%	-

A.E.V

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
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Job No.: CQCE/BBMP/AKHB/02/2023-24

Date : 09.03.2024

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.

Name of Work : Construction of RO Plant and other development works at JPN Colony census block No. 89/1,89/2 in Chowdeshwari Ward No.02 of Yelahanka sub Division, BBMP, Bangalore

Date of Testing : 09.03.2024

Material : Sand(Plastering)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	11	1.10	1.10	98.9	95-100
2.36	17	1.70	2.80	97.2	95-100
1.18	35	3.50	6.30	93.7	90-100
600 Micron	76	7.60	13.90	86.1	80-100
300 Micron	255	25.50	39.40	60.6	20-65
150 Micron	500	50.00	89.40	10.6	0-15

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Job No.: CQCE/BBMP/AKHB/02/2023-24

Date : 09.03.2024

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.

Name of Work : Construction of RO Plant and other development works at JPN Colony census block No. 89/1,89/2 in Chowdeshwari Ward No.02 of Yelahanka sub Division, BBMP, Bangalore

Date of Testing : 09.03.2024

Material : Sand(Masonry)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14	1.40	1.40	98.6	90-100
1.18	39	3.90	5.30	94.7	70-100
600 Micron	85	8.50	13.80	86.2	40-100
300 Micron	266	26.60	40.40	59.6	5-70
150 Micron	499	49.90	90.30	9.7	0-15

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Job No.: CQCE/BBMP/AKHB/02/2023-24

Date : 09.03.2024

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.

Name of Work : Construction of RO Plant and other development works at JPN Colony census block No. 89/1,89/2 in Chowdeshwari Ward No.02 of Yelahanka sub Division, BBMP, Bangalore

Date of Testing : 09.03.2024

IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	66	6.60	6.60	93.4	90-100
2.36	149	14.90	21.50	78.5	75-100
1.18	158	15.80	37.30	62.7	55-90
600 Micron	228	22.80	60.10	39.9	35-59
300 Micron	166	16.60	76.70	23.3	8-30
150 Micron	178	17.80	94.50	5.5	0-10

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Job No.: CQCE/BBMP/AKHB/02/2023-24

Date : 09.03.2024

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.

Name of Work : Construction of RO Plant and other development works at JPN Colony census block No. 89/1,89/2 in Chowdeshwari Ward No.02 of Yelahanka sub Division, BBMP, Bangalore

Date of Testing : 09.03.2024

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	201	1.34	1.34	98.66	95-100
20	8354	55.69	57.03	42.97	30-70
10	3188	21.25	78.29	21.71	10-35
4.75	2587	17.25	95.53	4.47	0-5

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Job No.: CQCE/BBMP/AKHB/02/2023-24

Date : 09.03.2024

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client	: **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	: **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.
Name of Work	: Construction of RO Plant and other development works at JPN Colony census block No. 89/1,89/2 in Chowdeshwari Ward No.02 of Yelahanka sub Division, BBMP, Bangalore
Steel Dia/Length	: 8mm,10mm,12mm" TMT"
Reference to BIS codes	: IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification
	: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature
Date of test	: 09.03.2024

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.397	558	609	1.09	18
2	TMT	10	0.616	564	628	1.11	17
3	TMT	12	0.889	572	628	1.10	19

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/02/2023-24

Date : 09.03.2024

TEST REPORT ON SOLID CONCRETE BLOCKS

Client	**: Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	**: Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.
Name of the Work	: Construction of RO Plant and other development works at JPN Colony census block No. 89/1,89/2 in Chowdeshwari Ward No.02 of Yelahanka sub Division, BBMP, Bangalore
Date of Testing	: 09.03.2024
Size of Blocks	400mm*200mm*200mm
Cross Sectional Area	: 80000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	34.5	405.6	5.07	2156.25	**Minimum required Compressive Strength of Individual Units 5.00N/mm^2**
2	Block 2	34.6	415.2	5.19	2162.50	
3	Block 3	33.4	421.7	5.27	2087.50	
4	Block 4	33.9	426.8	5.34	2118.75	

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/02/2023-24

Date: 12.04.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.

Name of the work : Construction of RO Plant and other development works at JPN Colony census block No. 89/1,89/2 in Chowdeshwari Ward No.02 of Yelahanka sub Division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.03.2024	12.04.2024	8.099	247.0	10.98
2	15.03.2024	12.04.2024	8.044	257.0	11.42
3	15.03.2024	12.04.2024	8.166	267.0	11.87

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/02/2023-24

Date: 17.04.2024

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.

Name of the work : Construction of RO Plant and other development works at JPN Colony census block No. 89/1,89/2 in Chowdeshwari Ward No.02 of Yelahanka sub Division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.03.2024	17.04.2024	8.051	368.6	16.38
2	20.03.2024	17.04.2024	8.151	376.3	16.72
3	20.03.2024	17.04.2024	8.003	386.0	17.16

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Job No.: CQCE/BBMP/AKHB/02/2023-24

Date: 17.04.2024

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.

Name of the work : Construction of RO Plant and other development works at JPN Colony census block No. 89/1,89/2 in Chowdeshwari Ward No.02 of Yelahanka sub Division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.03.2024	17.04.2024	8.052	365.3	16.24
2	20.03.2024	17.04.2024	8.169	376.7	16.74
3	20.03.2024	17.04.2024	8.093	389.4	17.31

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Job No.: CQCE/BBMP/AKHB/02/2023-24

Date: 27.03.2024

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.

Name of the work : Construction of RO Plant and other development works at JPN Colony census block No. 89/1,89/2 in Chowdeshwari Ward No.02 of Yelahanka sub Division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.03.2024	27.03.2024	8.103	263.4	11.71
2	20.03.2024	27.03.2024	8.136	272.6	12.12
3	20.03.2024	27.03.2024	8.054	281.9	12.53

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Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.

Name of the work : Construction of RO Plant and other development works at JPN Colony census block No. 89/1,89/2 in Chowdeshwari Ward No.02 of Yelahanka sub Division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.03.2024	27.03.2024	8.002	269.3	11.97
2	20.03.2024	27.03.2024	8.095	279.6	12.43
3	20.03.2024	27.03.2024	8.041	289.1	12.85

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Job No.: CQCE/BBMP/AKHB/02/2023-24

Date: 27.03.2024

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.

Name of the work : Construction of RO Plant and other development works at JPN Colony census block No. 89/1,89/2 in Chowdeshwari Ward No.02 of Yelahanka sub Division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.03.2024	27.03.2024	8.071	271.6	12.07
2	20.03.2024	27.03.2024	8.192	284.2	12.63
3	20.03.2024	27.03.2024	8.137	295.1	13.12

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Job No.: CQCE/BBMP/AKHB/02/2023-24

Date: 23.03.2024

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**: Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Contractor	:	**: Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.
Name of Work	:	: Construction of RO Plant and other development works at JPN Colony census block No. 89/1,89/2 in Chowdeshwari Ward No.02 of Yelahanka sub Division, BBMP, Bangalore
No.of Sample Tested	:	03
Date of Testing	:	23.03.2024
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.359	2314.39	1.58	0.955	33.6	17.11	18.48	17.64	22.05
2	50.00	83.00	0.364	2233.54	1.66	0.963	33.8	17.21	18.59	17.91	22.39
3	50.00	87.00	0.408	2388.42	1.74	0.972	34.5	17.57	18.98	18.44	23.05

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/02/2023-24

01.04.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Contractor : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.

Name of the work : Construction of RO Plant and other development works at JPN Colony census block No. 89/1,89/2 in Chowdeshwari Ward No.02 of Yelahanka sub Division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.03.2024	01.04.2024	8.117	401.5	17.84
2	25.03.2024	01.04.2024	8.188	419.7	18.65
3	25.03.2024	01.04.2024	8.034	426.6	18.96

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Job No.: CQCE/BBMP/AKHB/02/2023-24

27.04.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Contractor : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.

Name of the work : Construction of RO Plant and other development works at JPN Colony census block No. 89/1,89/2 in Chowdeshwari Ward No.02 of Yelahanka sub Division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.03.2024	27.04.2024	8.062	595.5	26.47
2	30.03.2024	27.04.2024	8.162	605.6	26.92
3	30.03.2024	27.04.2024	8.005	615.7	27.36

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27.04.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Contractor : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.

Name of the work : Construction of RO Plant and other development works at JPN Colony census block No. 89/1,89/2 in Chowdeshwari Ward No.02 of Yelahanka sub Division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.03.2024	27.04.2024	8.029	599.9	26.66
2	30.03.2024	27.04.2024	8.174	616.6	27.40
3	30.03.2024	27.04.2024	8.126	627.7	27.90

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/02/2023-24

02.05.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Contractor : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.

Name of the work : Construction of RO Plant and other development works at JPN Colony census block No. 89/1,89/2 in Chowdeshwari Ward No.02 of Yelahanka sub Division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2024	02.05.2024	8.012	610.4	27.13
2	04.04.2024	02.05.2024	8.036	619.5	27.53
3	04.04.2024	02.05.2024	8.127	625.7	27.81

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Job No.: CQCE/BBMP/AKHB/02/2023-24

Date 27.04.2024

TEST REPORT ON CERAMIC TILES

*Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

*Agency : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.

*Name of Work : Construction of RO Plant and other development works at JPN Colony census block No. 89/1,89/2 in Chowdeshwari Ward No.02 of Yelahanka sub Division, BBMP, Bangalore

Technical Reference : IS: 13630 - 2006 - Method of Testing Ceramic Tiles
IS 15622 - 2006 - Specification of Ceramic Tiles

No. of Samples Tested : 05 (Five)

Date of Testing 22.04.2024 to 27.04.2024

I. MODULUS OF RUPTURE

Sl. No.	Measured Dimension (mm)	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x5.2	46.7	47.62	Average 47, indivisual minimum 44 N/mm^2
2	300x300x5.3	47.3		
3	300x300x5.5	48.5		
4	300x300x5.6	47.2		
5	300x300x5.4	48.4		

II. CHEMICAL RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x5.2	No visible effect	Class AA, min (13630 Part 8)
2	300x300x5.3	No visible effect	
3	300x300x5.5	No visible effect	
4	300x300x5.6	No visible effect	
5	300x300x5.4	No visible effect	

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III. STAIN RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x5.2	Stain Removed by Water	Class 1, min (13630 Part 8)
2	300x300x5.3	Stain Removed by Water	
3	300x300x5.5	Stain Removed by Water	
4	300x300x5.6	Stain Removed by Water	
5	300x300x5.4	Stain Removed by Water	

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/02/2023-24

02.05.2024

TEST REPORT ON CPVC PIPE

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.

Name of Work : Construction of RO Plant and other development works at JPN Colony census block No. 89/1,89/2 in Chowdeshwari Ward No.02 of Yelahanka sub Division, BBMP, Bangalore

Sample Supplied by: :AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 20mm dia

Date of Testing 02.05.2024

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	22.2	22.2 mm
2	Mean Outside Diameter (mm)	22.1	Min 22.1 mm Max 22.3 mm
3	Outside Diameter at Any Point (mm)	22.3	Min 22 mm Max 22.4 mm
4	Density	1475 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: CQCE/BBMP/AKHB/02/2023-24 02.05.2024

TEST REPORT ON PVC PIPE

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.

Name of Work : Construction of RO Plant and other development works at JPN Colony census block No. 89/1,89/2 in Chowdeshwari Ward No.02 of Yelahanka sub Division, BBMP, Bangalore

Sample Supplied by: :AGENCY

BIS Code: IS 4985:2000

Sample Identification: PVC pipe 110mm dia

Date of Testing 02.05.2024

Sl.No	Test	Test Result	Requirements as per IS 4985:2000
1	Nominal Outer Diameter (mm)	110	110 mm
2	Mean Outside Diameter (mm)	110.2	Min 110.0 mm Max 110.4 mm
3	Outside Diameter at Any Point (mm)	111.3%	Min 108.6 mm Max 111.4 mm

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